# UNITED STATES PATENT AND TRADEMARK OFFICE

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
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| 09/975,945 | 10/11/2001 | Charles Paclat | THEOR-205.1-US | 9612 |

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FULBRIGHT & JAWORSKI, LLP
666 FIFTH AVE
NEW YORK, NY 10103-3198

| EXAMINER |
|---|
| KHATRI, ANIL |

| ART UNIT | PAPER NUMBER |
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| 2191 | |

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**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

PTOL-90A (Rev. 04/07)

| | Application No. | Applicant(s) |
|---|---|---|
| **Office Action Summary** | 09/975,945 | PACLAT, CHARLES |
| | **Examiner** | **Art Unit** | |
| | Anil Khatri | 2191 | |

*-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --*

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <u>3</u> MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

1) ☒ Responsive to communication(s) filed on *15 January 2008*.

2a) ☒ This action is **FINAL**.　　2b) ☐ This action is non-final.

3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

4) ☒ Claim(s) *1-18* is/are pending in the application.

　　4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) ☐ Claim(s) _____ is/are allowed.

6) ☒ Claim(s) *1-18* is/are rejected.

7) ☐ Claim(s) _____ is/are objected to.

8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

**Application Papers**

9) ☐ The specification is objected to by the Examiner.

10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.

　　Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

　　Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

　　a) ☐ All　b) ☐ Some *　c) ☐ None of:

　　　1. ☐ Certified copies of the priority documents have been received.

　　　2. ☐ Certified copies of the priority documents have been received in Application No. _____.

　　　3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

　　* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

1) ☐ Notice of References Cited (PTO-892)

2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) ☐ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____.

4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____.

5) ☐ Notice of Informal Patent Application

6) ☐ Other: _____.

## *Response to Amendment*

1.      This action is in response to the request for reconsideration filed on 1/15/2008.

2.      As per applicant request claims 1-18 has been considered but they are not persuasive.

3.      Claims 1-16 are rejected under 35 U.S.C. 102(e) as being anticipated by *Goodwin et al*

USPN 6,199,195 and claims 17-18 are rejected under 35 USC 103(a) unpatentable over

the combination of Goodwin et al USPN 6,199,195 in view of *Lee et al* USPN 6,944,680.


### *In remarks applicant argues,*

I. Analyzing a business domain to determine functional requirements of business domain.

II. Identifying and manipulating pre-existing software objects that make up a running software

application.

III. Transforming functional requirements into an EJB component model.

IV. Building an EJB component in accordance with EJB component model that encompasses the

business functionality of business domain.

V. Generating source code by translating logical models into unified models and then generating

a plurality of templates related thereto and generating the source code therefrom.

VI. Smart component having at least one of the following features: Smart Key, Smart Handle

and Smart value.

***In response to applicant's arguments,***

I. It was noted that cited reference fairly suggest analyzing a business domain to determine functional requirements of business domain (column 8, lines 20-31, One advantage of the present embodiment is providing methods for developing the extensible application frameworks that can rapidly integrate object services as they become available from commercial sources or are developed as domain specific features by the developer. This level of extensibility and tailoring is unparalleled in heretofore available systems. The code generator 210 and the ability to rapidly integrate new object services (proxy, persistent state, domain specific services, etc.) into business objects provides a capability that is unique to the present embodiment and its system definition 208, and to integrating object models with object behaviors within a business object framework). Therefore, examiner interprets that method allows for *domain specific* features are developed into business objects as the requirements dictates.

II. It was also noted that cited reference fairly teaches identifying and manipulating pre-existing software objects that make up a running software application (column 6, lines 29-36, the disclosed system and method allow object developers to design and author new object services, and to define how these services are composed within extensible frameworks with other object services. This is accomplished through object templates, which make up the system definition 208, and describe the object services and their dependencies in relationships to other object services as well as behaviors to be generated for objects within the framework). Therefore, examiner interprets that method allows objects to be identified and to be used as needed to develop and design new software objects.

III. It was also noted that cited reference also suggest transforming functional requirements into

an EJB component model (column 11 and column 12, lines 56-67 and 1-3, Thus, the schema

server 316 supports other software by describing object models. The 316 is related to multiple

software components. As a part of an Next Generation Information Infrastructure (NGII)

software enterprise architecture, the schema server 316 depends on other components of such

architecture, and at the same time other components depend on the 316. The 316 interfaces

with other components via CORBA interfaces. The Interface Definition Language (IDL)

definition of these other components defines a common interface mechanism between CORBA

objects. Specifically, the schema server 316 provides unified models describing classes that a

user application is attempting, for example, to query. In this respect, the schema server 316 is

supplanting standard CORBA interface repository facilities). Therefore, examiner interprets that

method allow to transform from requirement to a component model as figures also depicts the

component model and transformation.

IV. It was also noted that reference fairly suggest building an EJB component in accordance

with EJB component model that encompasses the business functionality of business domain

(column 12, lines 18-35, (62)   By way of analogy, the schema server 316 manages a warehouse

of blueprints, i.e., the schema repository 314. The schema server 316 itself is analogous to a

clerk who retrieves the blueprints requested by visiting clients. The language burned into the

blueprints is Unified Modeling Language, UML, and the architect creating the drawings is the

repository adaptor tool 312. The repository adaptor tool 312, of course, uses logical models

from various modeling tools to generate the unified models. Just as each pen stroke on a blueprint represents a unique structural feature of building, each object within a unified model represents a unique structural feature of a software system. More specifically, the objects describe all aspects of systems that have been modeled. One or more objects represent each component of a system, such as a structural feature or a behavioral feature. A single object easily defines a majority of system components, while some components must be represented with a graph of objects).

V. It was also noted that cited reference fairly suggest generating source code by translating logical models into unified models and then generating a plurality of templates related thereto and generating the source code therefrom (column 6,lines 17-22, s shown, the logical models 202 provide an input to the model adaptor 202, which in turn has as its output the unified models 206. The unified models 206 and the system definition 208 are provided as inputs to the code generator 210, which generates the source code 212). Therefore, examiner interprets that it allows to generate code form the models and further (column 7, lines 51-61, An important feature of the present embodiment is an ability to help the developer, at development-time, to rapidly generate business objects that are composed of behaviors from various object management services (persistence state, proxy object, life cycle, externalization, event, etc.) using an open framework. The present embodiment also allows developers to define unique (i.e., custom) services and unique behaviors that can be integrated into an object framework. At run-time, in the present embodiment, object management services utilize the objects that were

generated using the code generator 210 to retrieve user data from distributed data sources as objects.

VI. It was also noted that cited reference *Lee* fairly teaches Smart component having at least one of the following features: Smart Key, Smart Handle and Smart value (see summary of the invention). Therefore, examiner interprets that method allows at least one feature such as SmartHandle in EJB environment to be implemented to access objects from the database.

### *Conclusion*

**THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anil Khatri whose telephone number is 571-272-3725. The examiner can normally be reached on M-F 8:30-5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wei Zhen can be reached on 571-272-3708. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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**ANIL KHATRI**
**PRIMARY EXAMINER**